

Species	Strain or Clone	Detection by real- time PCR	Species	Strain or Clone	Detection by real-time PCR
Positive controls			Praireinophytes		
<i>K. brevis</i>	Apalachicola B5	+	<i>Tetraselmis</i> sp.	850001	-
<i>K. brevis</i>	Apalachicola C6	+	<i>Tetraselmis</i> sp.	CCMP961	-
<i>K. brevis</i>	Charlotte Harbor A2	+	Unidentified species	CCMP1536	-
<i>K. brevis</i>	Charlotte Harbor C2	+	Prymnesiophytes		
<i>K. brevis</i>	Mexico Beach B3	+	<i>Isochrysis</i> sp.	3C	-
<i>K. brevis</i>	Mexico Beach C5	+	<i>Pavlova lutheri</i>	CCMP1325	-
<i>K. brevis</i>	Jacksonville C3	+	<i>Prymnesium parvum</i>	NA	-
<i>K. brevis</i>	Piney Island A3	+	Unidentified species	ST8CH26 clone	-
<i>K. brevis</i>	Piney Island B4	+	Unidentified species	ST1CH3 clone	-
<i>K. brevis</i>	Wilson	+	Chlorophytes		
Negative controls			<i>Chlamydomonas euryale</i>	CCMP219	-
Dinoflagellates			Unidentified species	ST5SY7 clone	-
<i>K. mikimotoi</i>	CCMP430	-	<i>Chlamydomonas</i> sp.	ST2SY2 clone	-
<i>Amphidinium carterae</i>	CCMP1314	-	<i>Pycnococcus</i> sp.	ST6SY8 clone	-
<i>Akashiwo sanguinea</i>	CCMP1321	-	Cyanophytes		
<i>Alexandrium tamarense</i>	CCMP1493	-	<i>Synechococcus</i> sp.	CCMP836	-
<i>Glenodinium foliaceum</i>	NA	-	<i>Synechococcus</i> sp.	WH7803	-
<i>Gymnodinium catenatum</i>	CCMP1937	-	<i>Synechococcus</i> sp.	ST2SY26 clone	-
<i>Gyrodinium</i> sp.	NA	-	<i>Prochlorococcus</i> sp.	ST2SY33 clone	-
<i>Kryptoperidinium foliaceum</i>	NA	-	<i>Trichodesmium</i> sp.	ST8SY15 clone	-
<i>Lingulodinium polyedra</i>	CCMP1738	-	Trebouxioophyte <i>Chlorella</i>	CCMP243	-
<i>Prorocentrum micans</i>	NA	-	<i>autotrophica</i>		
<i>Scrippsiella trochoidea</i>	NA	-	Coccioidocophyte	CCMP1335	-
<i>Scrippsiella precaria</i>	NA	-	<i>Thalassiosira pseudonana</i>		
Diatoms			Eustigmatophytes		
<i>Phaeodactylum tricornutum</i>	CCMP1327	-	<i>Nannochloropsis</i> sp.	ST3CH27 clone	-
<i>Cylindrotheca</i> sp.	ST6CH2 clone	-	<i>Nannochloropsis</i> sp.	ST1CH4 clone	-
<i>Skeletonema</i> sp.	ST4CH31 clone	-	Xanthophyte <i>Heterococcus</i> sp.	ST6CH33 clone	-
<i>Skeletonema</i> sp.	ST4CH14 clone	-			
Raphidophyte <i>Heterosigma</i>	NA	-			
<i>akashiwo</i>					

FIG. 1

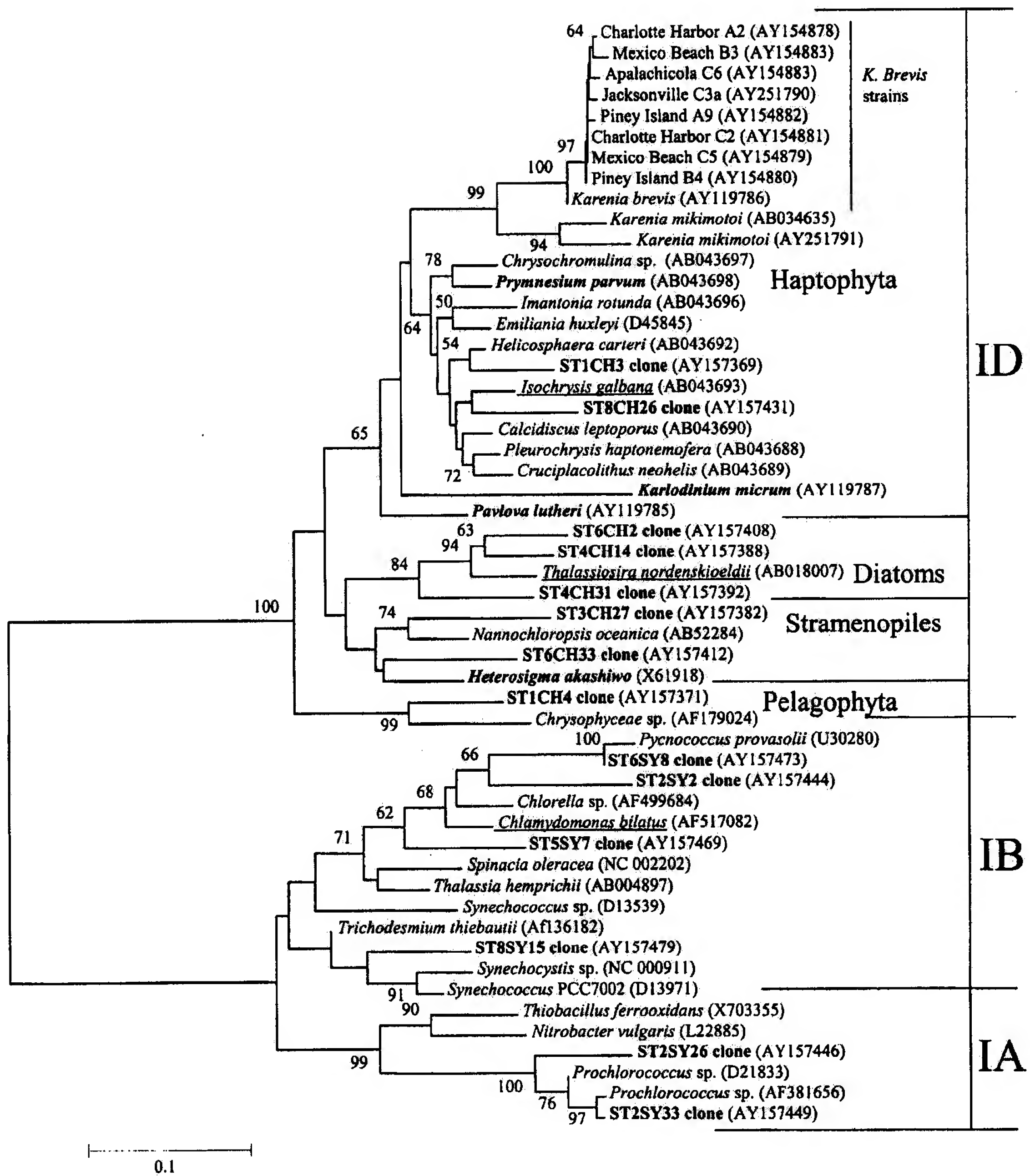
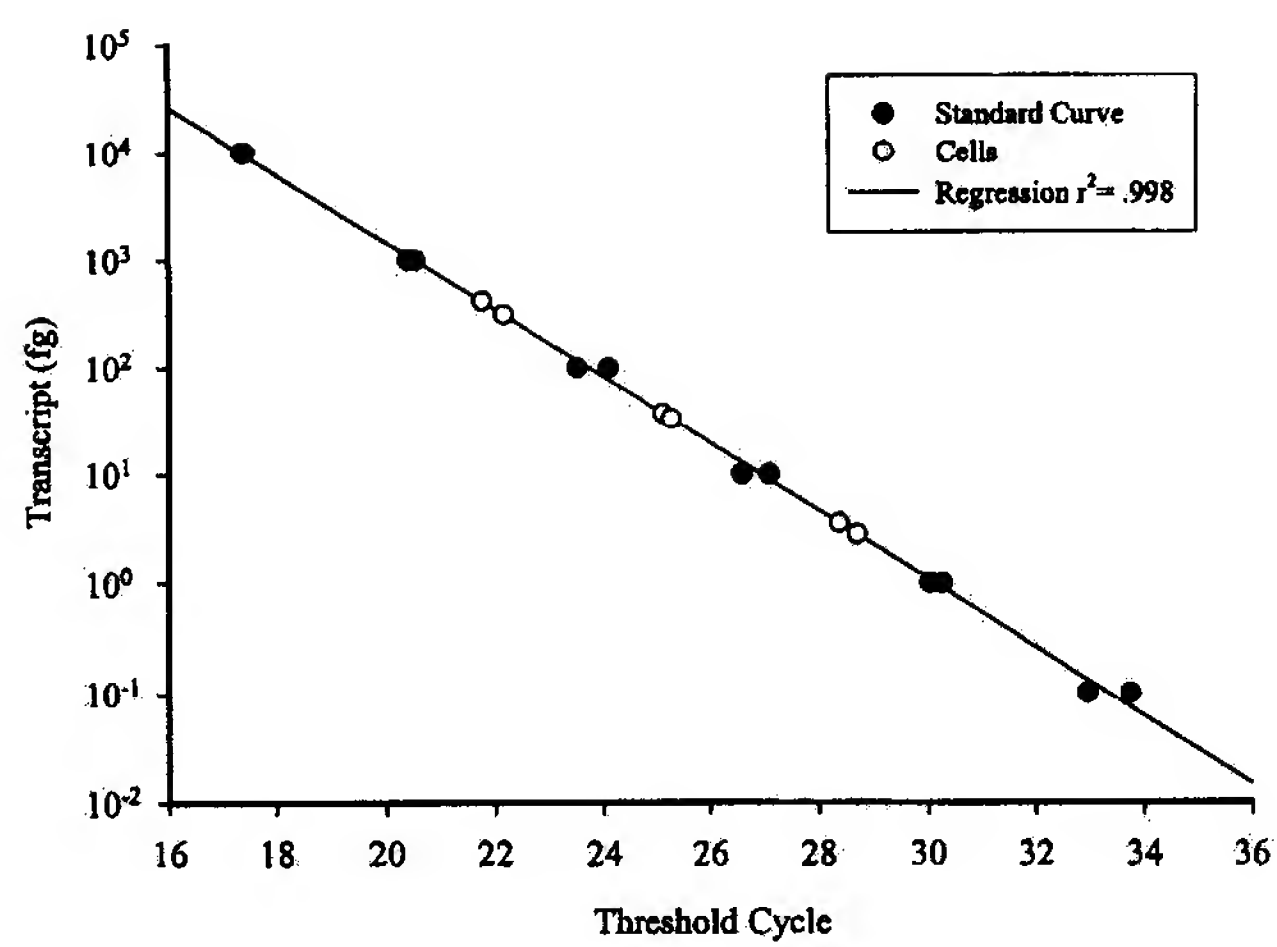


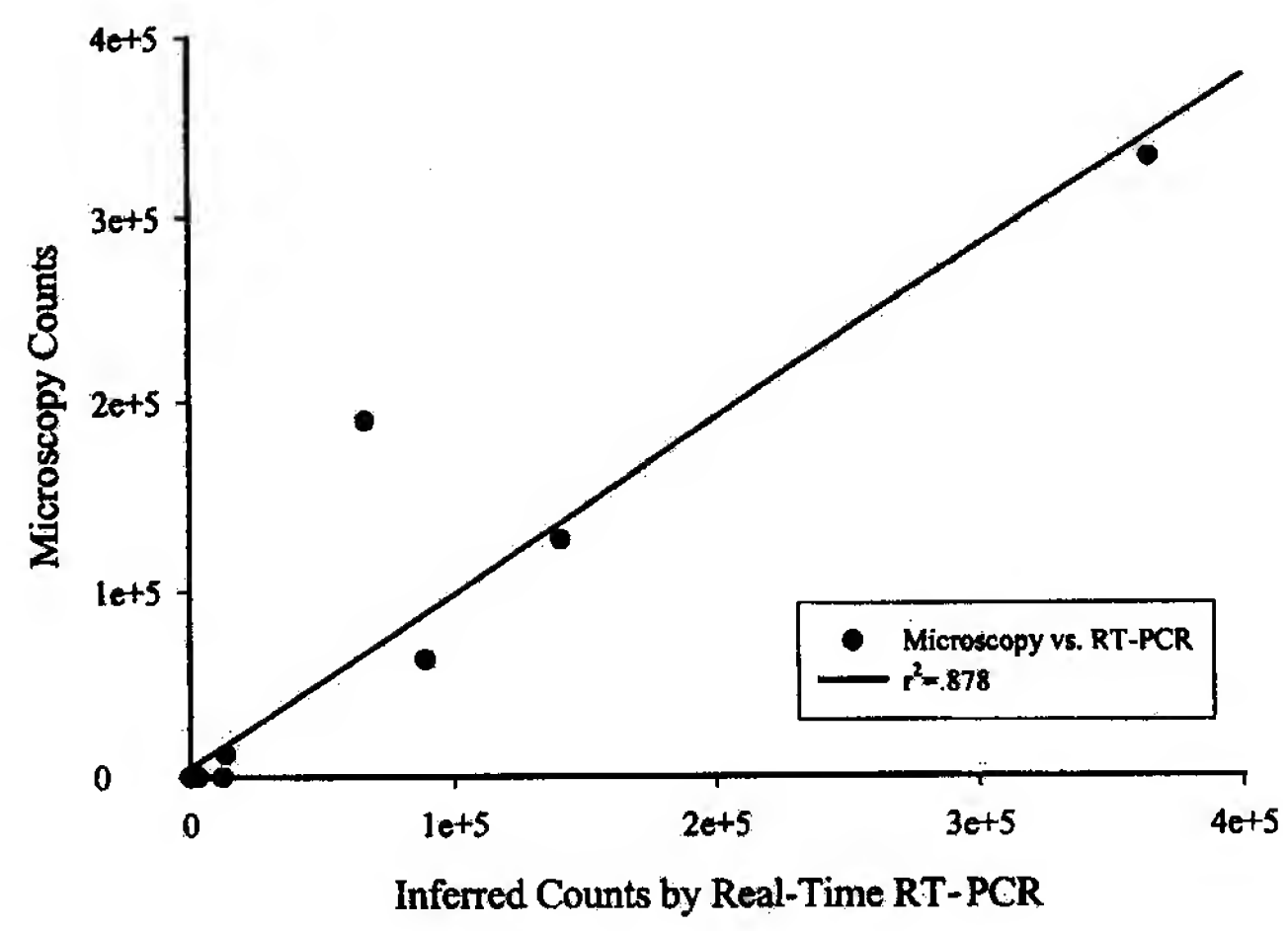
FIG. 2



*KARENIA BREVIS* DETECTION USING  
REAL-TIME PCR 5729

FIG. 3

FIG. 4



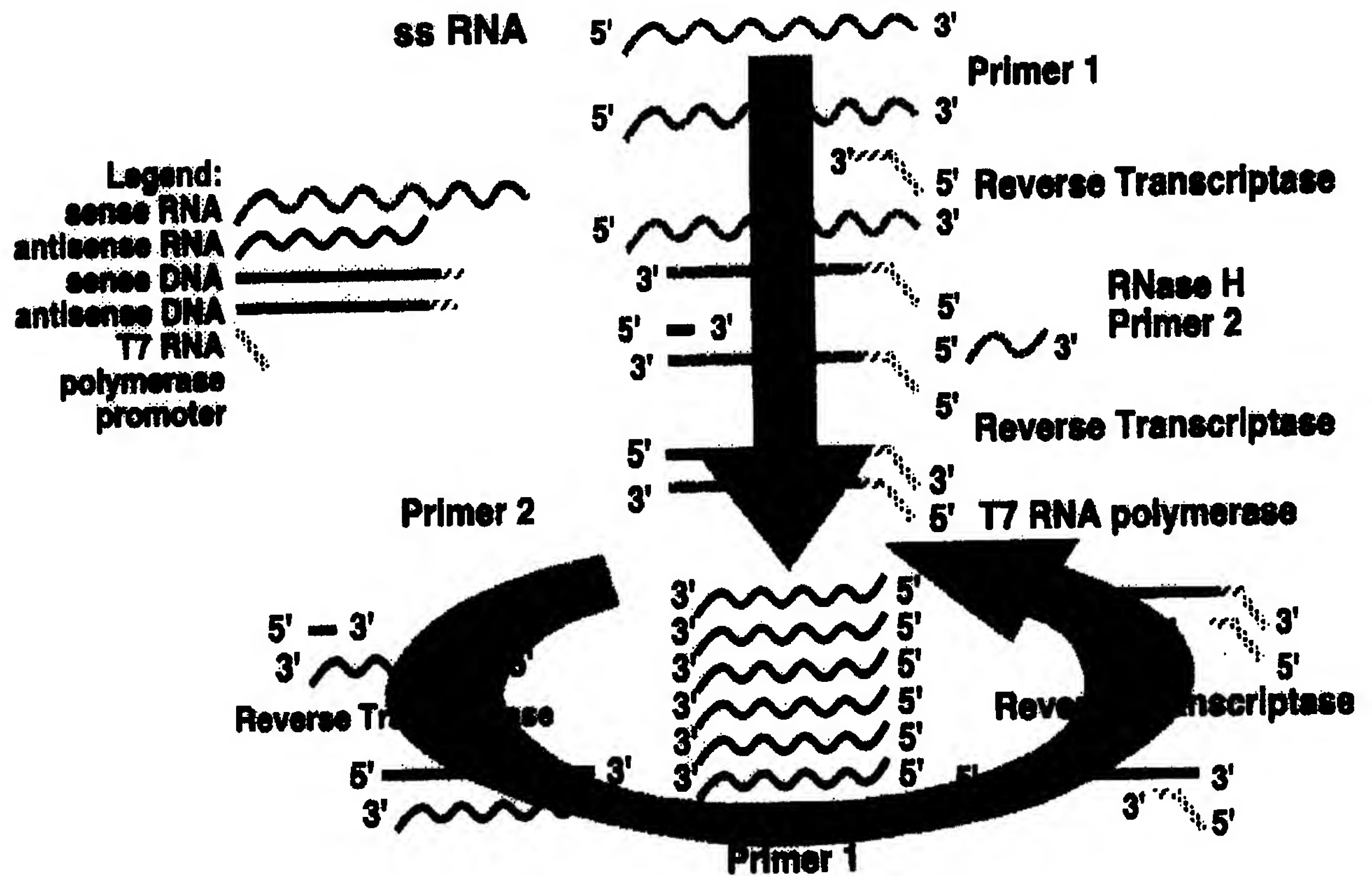


FIG. 5

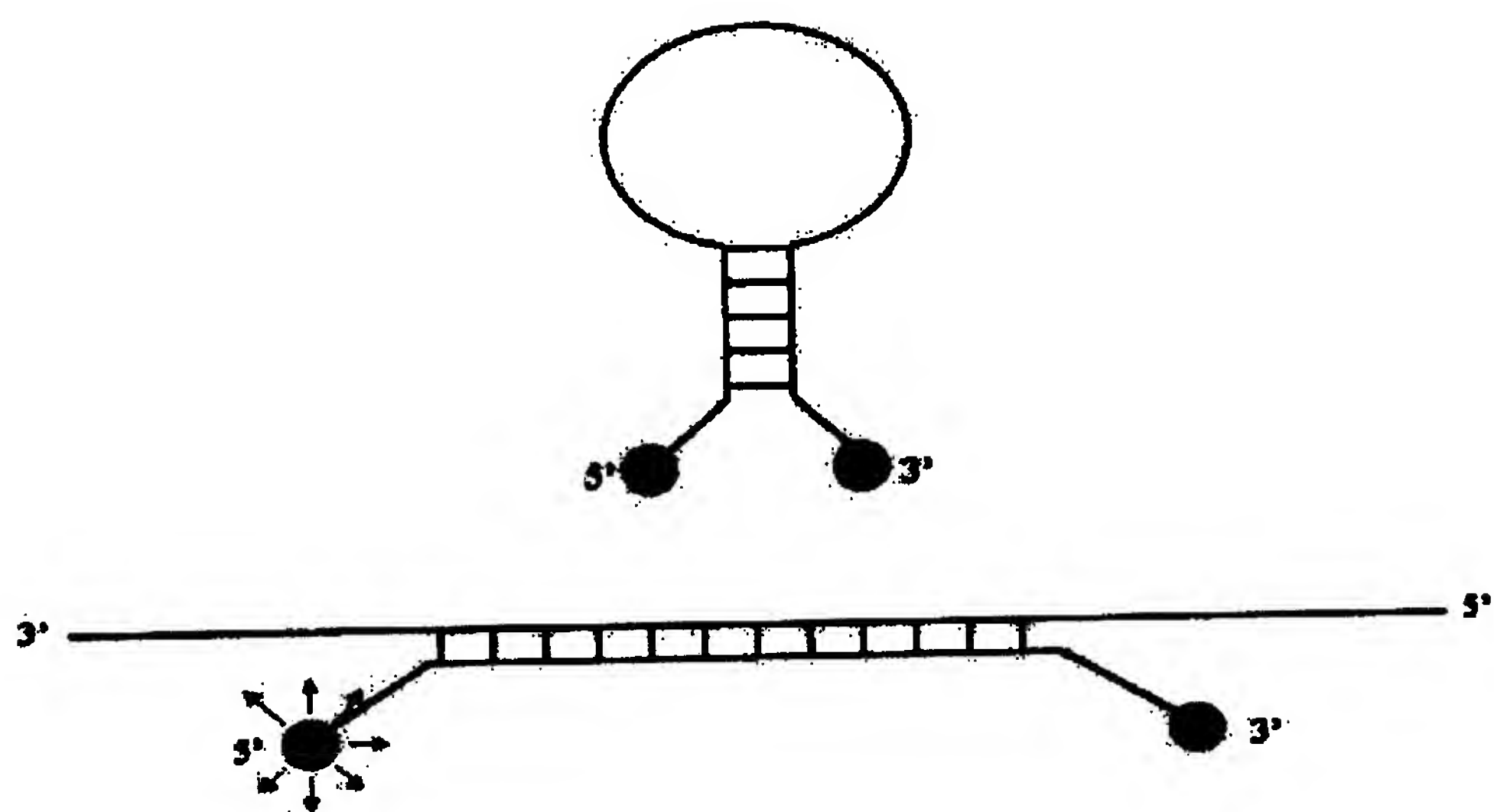


FIG. 6

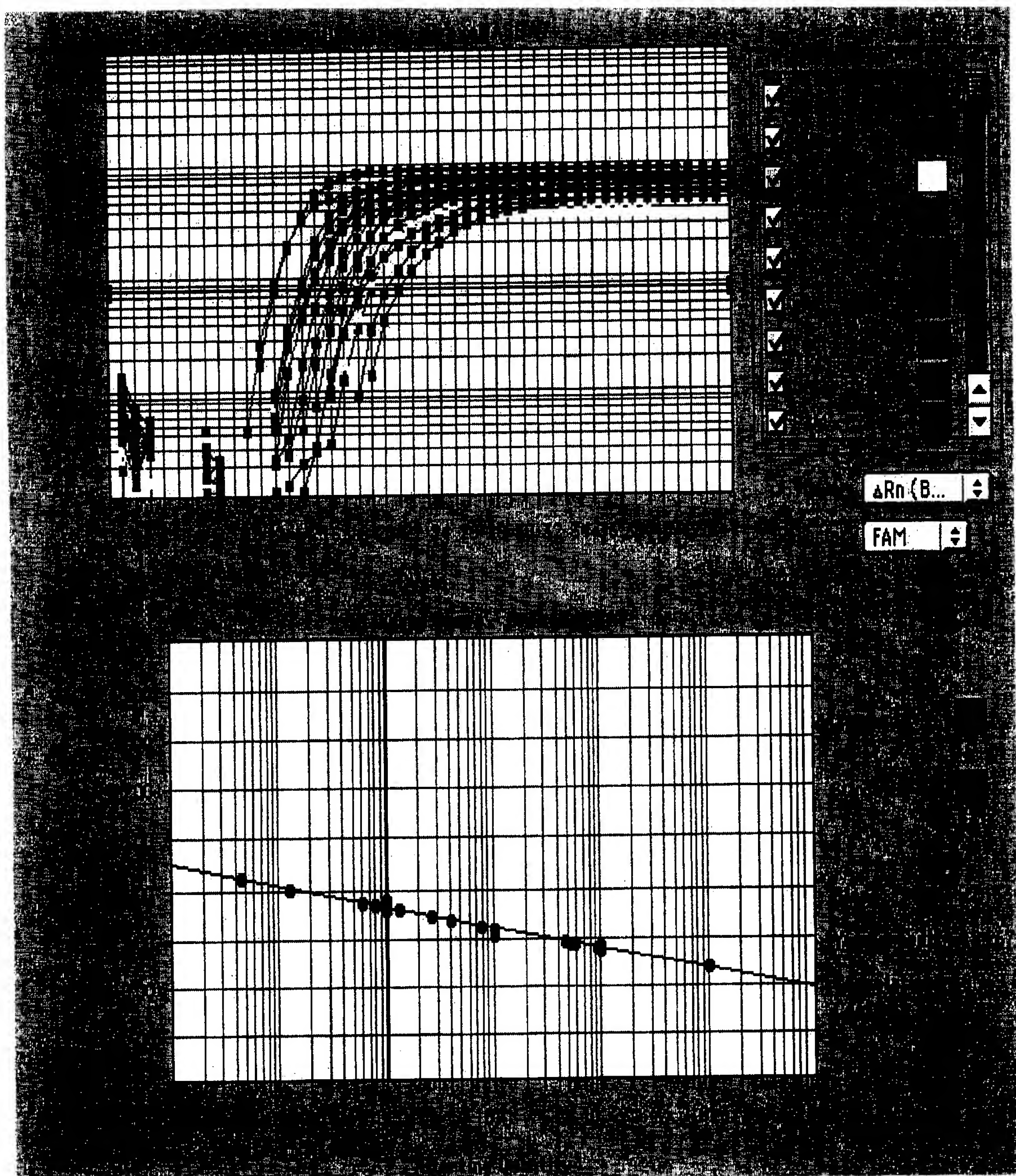


FIG. 7





FIG. 8



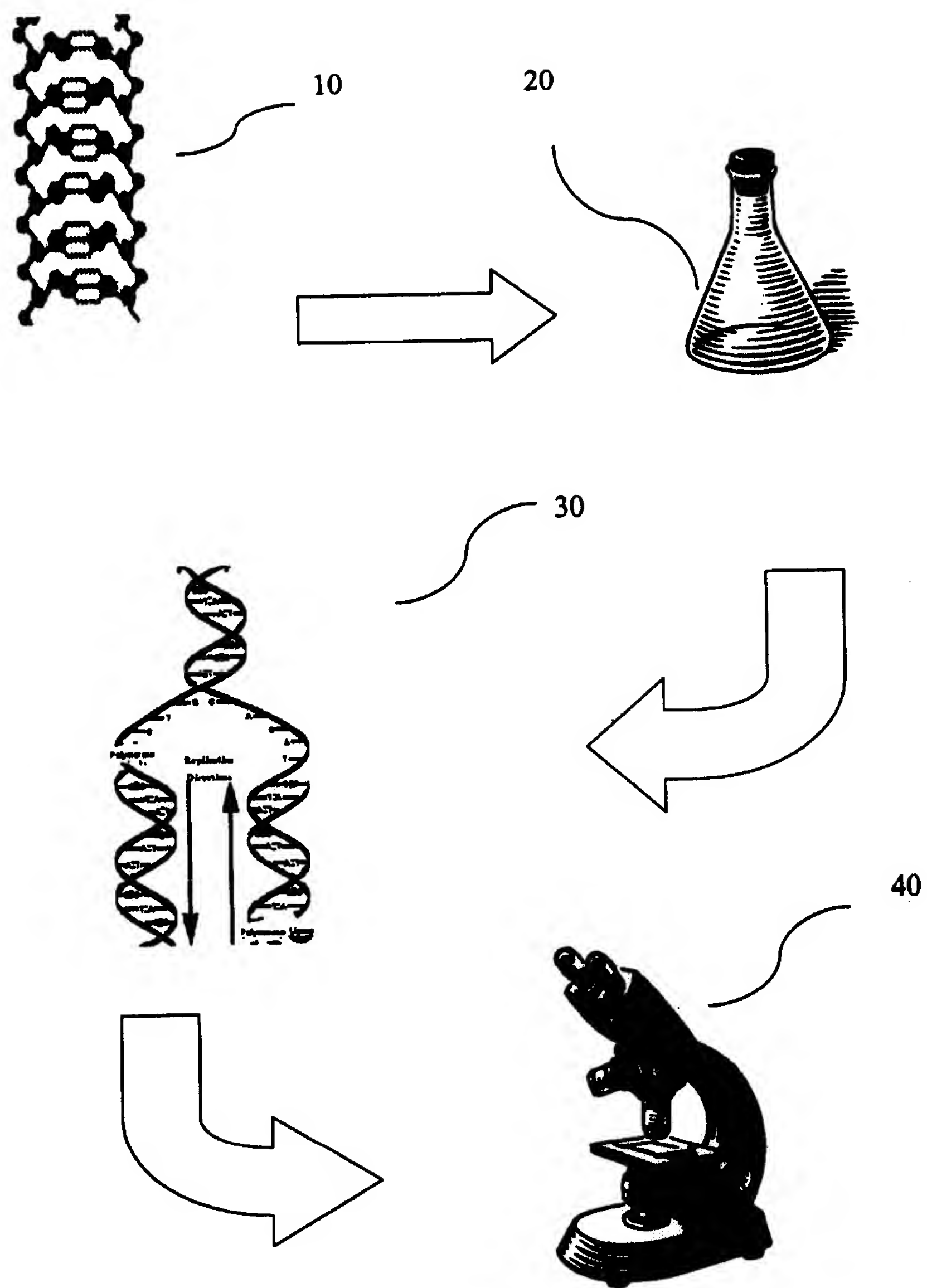


FIG. 9